

Patent Abstracts of Japan

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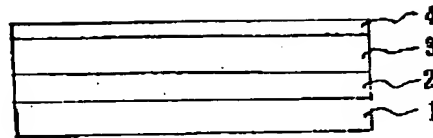
APPLICATION DATE : 13-10-94
APPLICATION NUMBER : 06247826

APPLICANT : KASEI OPTONIX CO LTD;

INVENTOR : AOKI YUJI;

INT.CL. : G03C 5/16 G21K 4/00

TITLE : INTENSIFYING SCREEN FOR DRY
PROCESS X-RAY FILM



ABSTRACT : **PURPOSE:** To make it possible to rapidly obtain a transmissive film with high accuracy even to an object which is to be inspected and has a high transmission thickness by providing the surface of a base with a scattering preventive layer consisting of lead foil and a phosphor layer formed by dispersing rare earth phosphors into a binder thereon.

CONSTITUTION: The surface of the base 1 is provided with the scattering preventive layer 2 consisting of the lead foil and the phosphor layer 3 formed by dispersing the rare earth phosphors into the binder thereon. The scattering preventive layer 2 is a layer for preventing the forward and backward scattering of the X-rays at the time of using sensitizing paper and the lead foil is directly adhered on the base 1 in order to form the scattering preventive layer 2. The phosphor layer 3 is a layer for enhancing the sensitivity of an X-ray film. The phosphor layer 3 is formed simply by applying a dispersion prep. by dispersing the rare earth phosphors into an org. solvent soln. of the binder on the scattering preventive layer 2 formed on the base 1 and drying the coating. The sensitizing paper is composed of such double laminated structure and the phosphor layer 3 is further preferably provided thereon with a transparent protective layer 4 in order to protect the phosphor layer 3 on the surface against chemical change in properties and physical impact.

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DC - E11 G06 K08 S05

DR - 1739-U

FS - CPI;EPI

IC - G21K4/00

MC - E05-E G04-A G06-A09 G06-D01 K08-E K09-B

- S05-D02A5

M3 - [01] B414 B514 B614 B711 B712 B713 B720 B731 B732 B741 B742 B743 B744
B751 B752 B792 B793 B831 C017 C100 F012 F019 F100 F199 G010 G019 G020
G021 G029 G040 G100 G111 G112 G113 H100 H102 H141 H142 H143 H181 H182
H183 H498 H581 H582 H583 H602 H608 H681 H689 H713 H714 H716 H721 H731
J011 J012 J013 J271 J272 J273 J371 J372 J373 M121 M122 M123 M124 M125
M126 M129 M144 M210 M211 M212 M213 M214 M215 M216 M220 M221 M222 M223
M224 M225 M226 M231 M232 M233 M250 M262 M272 M273 M280 M281 M282 M283
M311 M312 M313 M314 M315 M316 M320 M321 M322 M323 M331 M332 M333 M342
M361 M373 M383 M391 M411 M510 M520 M521 M522 M523 M530 M531 M532 M533
M540 M620 M781 M903 M904 P831 Q349 Q444 Q613 R043; 00012; 8742-E1001-U;
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PA - (KONS) KONISHIROKU PHOTO IND CO LTD

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- JP6031908B B2 19940427 DW199415 G21K4/00 007pp

PR - JP19860053269 19860311

XA - C1987-126398

XIC - G21K-004/00

XP - N1987-221693

AB - J62209398 In a radiation image conversion panel having a stimulative
fluorescent layer in which a stimulative fluorescent substance e.g.
BaSO₄:Dy etc. is dispersed in a binder, e.g. protein, polysaccharide,
etc., the stimulative fluorescent layer contains 0.01-10 wt.% a silane
coupling agent, e.g. methyltrimethoxysilane, methyltriethoxysilane,
etc. of formula (I). In (I), R is an aliphatic or aromatic hydrocarbon
gp. opt. having unsatd. gp. and a substn. gp. and X1, X2, and X3 are
each an aliphatic or aromatic hydrocarbon, acyl, amide, alkoxy,
alkylcarbonyloxy, epoxy, mercapto, or halogen.

- USE/ADVANTAGE - The radiation image conversion panel has high moisture
resistance, high physical strength, and high durability. It can be
used effectively for long periods of time for medical diagnosis, using
X-ray photograph, etc.(1/1)

AW - MEDICAL DIAGNOSE

AKW - MEDICAL DIAGNOSE

CN - 8742-E1001-U

DRL - 8714-0 1286-M

IW - RADIATE IMAGE CONVERT PANEL STIMULATING FLUORESCENT LAYER CONTAIN
SILANE COUPLE AGENT

IKW - RADIATE IMAGE CONVERT PANEL STIMULATING FLUORESCENT LAYER CONTAIN
SILANE COUPLE AGENT

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